

PATENT ABSTRACTS OF JAPAN

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(54) HOLLOW YARN TYPE FILTER

(57)Abstract:

PURPOSE: To reduce fluidization resistance of the inside of hollow yarn without reducing the membrane area of hollow yarn and to enhance air washability by providing a catchment chamber of filtrate to the lower end part of a hollow yarn filter having apertures in both ends and uniformly dispersing large hollow yarn in a bundle of hollow yarn in the specified proportion.

CONSTITUTION: Large hollow yarn 11 having inner diameter of 1W5mm is uniformly dispersed and mixed in ordinary hollow yarn 10 in the range of 1W30% for the number of all hollow yarns and fixed to the inside of an outer cylinder 16 by upper and lower adhesives 4 in such a state that both ends are opened and a catchment chamber 5 of filtrate is closely sealed by an O-ring 9 and provided to the lower end part of a filter. A skirt-shaped recessed part 6 for air collection is closely sealed in the outer cylinder 16 and provided around the catchment chamber 5. The large hollow yarn 11 acts as the filter of liquid to be treated and simultaneously as a catchment pipe. In case of backwashing or air scrubbing, the air fed through an air introduction nozzle of the lower part of the filter is assembled in the recessed part 6 and introduced into the filter through a slit 7 and air introduction ports 8 and hollow yarn is vibrated thereby and metallic colloid stuck to hollow yarn is shaken off.

